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DERWENT-ACC-NO: 1981-38256D

DERWENT-WEEK: 198122

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TITLE: Solar energy utilisation - by photosynthetic plant

growth for food and

biomass based energy generation

INVENTOR: KRAUS, H

PATENT-ASSIGNEE: MAN MASCHFAB AUGSBURG-NUERNBERG[MAUG]

PRIORITY-DATA: 1979DE-2941691 (October 15, 1979)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE

PAGES MAIN-IPC

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INT-CL (IPC): C05F013/00; C07C009/04; C07C031/08

ABSTRACTED-PUB-NO: DE 2941691A

BASIC-ABSTRACT: Solar energy is utilised by converting it through

photosynthesis into organic plant matter. The prim. yield of the plant

substance is partly used as food for man and cattle and partly mixed with the

sec. yield in the shape of human and animal excreta. The mixt. is converted to

methane or ethyl alcohol by an anaerobic fermentation of the mesophilic or

thermophilic type. The digested sludge produced is dried, granulated and

applied as nitrogenous fertiliser to the fields to close the biological cycle.

This saves other types of not reclaimable energy (coal, oil) and replaces them by inexhaustible supplies of solar energy.

## TITLE-TERMS:

SOLAR ENERGY UTILISE PHOTOSYNTHESIS PLANT GROWTH FOOD BIOMASS BASED ENERGY

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## **GENERATE**

DERWENT-CLASS: CO3 CO4 D13 D16 E19 X15

CPI-CODES: C04-A07D; C04-B04B; C10-E04D; C10-J02; C12-L09;

C12-N09; C12-N10;

D05-B; D05-C; E10-E04E; E10-J02D;

EPI-CODES: X15-X;

CHEMICAL-CODES:

Chemical Indexing M1 \*01\*

Fragmentation Code

V400 V600 V404 V633 N130 P113 P111 P112 M720 R003 R002 R031 R032 R033 R034 R036 R038 R043 M423 M902

Chemical Indexing M2 \*02\*

Fragmentation Code

M210 M211 M231 M311 M320 M610 M620 N130 M510 M520 M530 M540 M720 M416 M902

Chemical Indexing M2 \*03\*

Fragmentation Code

H4 M210 M212 M231 M270 M281 M312 M320 H401 H481 M620 N130 M510 M520 M530 M540 M720 M416 M902

Chemical Indexing M3 \*04\*

Fragmentation Code

M210 M211 M231 M311 M320 M610 M620 N130 Q233 M510 M520 O413 M530 M540 M720 M416 M902

Chemical Indexing M3 \*05\*

Fragmentation Code

H4 M210 M212 M231 M270 M281 M312 M320 H401 H481 M620 N130 Q232 Q233 M510 H8 M520 M530 M540 M720 M416 M902

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